

Curriculum vitae—Lila M. Gierasch

Distinguished Professor, Department of Biochemistry & Molecular Biology
and Department of Chemistry
University of Massachusetts

Amherst, MA 01003

(413)545-6094; Fax (413)545-1289; email: gierasch@biochem.umass.edu

EDUCATION:

Mount Holyoke College, So. Hadley, MA	A.B. 1970	Chemistry	
Harvard University, Cambridge, MA	Ph.D. 1975	Biophysics	(E.R.Blout, advisor)

PROFESSIONAL EXPERIENCE:

1974-1979	Assistant Professor of Chemistry, Amherst College
1977-1978	Visiting Scientist, Université Louis Pasteur de Strasbourg (with J.M. Lehn)
1979-1981	Assistant Professor of Chemistry, University of Delaware
1981-1985	Associate Professor of Chemistry, University of Delaware
1983-1984	Visiting Scientist, Smith Kline & French
1985-1988	Professor of Chemistry, University of Delaware
1988-1994	Professor of Pharmacology and Robert A. Welch Professor of Biochemistry, The University of Texas Southwestern Medical Center at Dallas
1991-1994	Director, Molecular Biophysics Graduate Program, UT Southwestern
1994-1999	Head, Dept. of Chemistry, Univ. of Massachusetts Amherst
1999-2005	Head, Dept. of Biochemistry & Molecular Biology, Univ. of Massachusetts Amherst
1994-	Professor of Chemistry, Univ. of Massachusetts Amherst
1999-	Professor of Biochemistry & Molecular Biology, Univ. of Massachusetts Amherst
2006-	Distinguished Professor, University of Massachusetts, Amherst

HONORS, AWARDS, PROFESSIONAL RECOGNITION:

1970	A. B. conferred summa cum laude and with great distinction
1970-1973	NSF Predoctoral Fellowship
1977-1978	French Ministry of Foreign Affairs Fellowship
1984-1986	A.P. Sloan Fellowship
1984	Vincent du Vigneaud Award for Young Investigators in Peptide Research
1985	Mary Lyon Award, Mount Holyoke College
1986	Guggenheim Fellowship
1987	Distinguished Faculty Lecturer, College of Arts & Science, Univ. of Delaware
1989	Fellow, American Association for the Advancement of Science
1999	Distinguished Faculty Lecturer/Chancellor's Medal, Univ. of Massachusetts
2002	D. Sc. Honoris Causa, Mount Holyoke College
2002	Samuel F. Conti Faculty Fellowship, University of Massachusetts, Amherst
2002	Outstanding Service Award, College of Natural Science and Mathematics, UMass, Amherst
2006	Francis P. Garvan-John M. Olin Medal of the American Chemical Society
2006	Named Distinguished Professor, University of Massachusetts, Amherst

SERVICE TO PROFESSION / ADVISORY COMMITTEES:

1981-1983	Consultant, NICHD Contracts Program on Peptides as Gonadotropin Inhibitors
1983-1987	Member, BCB Study Section, NIH
1985-1986	Consultant, Merck Sharp & Dohme Research Laboratories
1986-1994	Member, Scientific Advisory Board, Biosym Technologies, Inc.
1994-1998	Member, Scientific Advisory Board, Damon Runyon/Walter Winchell Foundation
1995-2001	Member, Selection and Scheduling Committee, Gordon Res. Conferences
1996-1998	Member, FASEB Board
1997	Member, Chemical Sciences Roundtable, National Research Council
1998-2001	Member, National Advisory General Medical Sciences Council, NIH
1998-2001	Member, Advisory Committee, Directorate for Math and Physical Sciences, NSF
1983-1991	Member, American Peptide Symposium Planning Committee
1993-1999	Member, Council of the American Peptide Society
1990-1993	Member, U.S. National Committee for IUPAC
1991-1997	Member, U.S. National Committee for IUPAB (Chair, 1997)
1991-1994	Chair, Biophysical Society Publications Committee
1995-1996	President, Biophysical Society
1997-2000	Member, Finance Committee, Biophysical Society
1994-1996	Executive Committee, Div. of Biol. Chem., Amer. Chem. Soc.
1998-2001	Member, Nominating Committee, ASBMB
1988	Chair, "Proteins" Gordon Research Conference
1988	Co-Organizer, AAAS Symposium "Protein Folding"
1991	Program Chair, Biophysical Society Annual Meeting
1993,1995	Vice-Chair, Chair "Membrane-Molecular Biology" Gordon Research Conference
2002,2004	Vice-Chair, Chair "Protein Folding and Assembly in the Cell" FASEB Summer Conference
2003-2006	Member, Council, ASBMB
2004-2007	Member, Finance Committee, Biophysical Society
2003-2006	Member, Discussions Committee, Biophysical Society
2004	Member, Physical Biochemistry Study Section, NIH
2005-2008	Member, MSFB Study Section, NIH
2005	Co-Organizer, Johns Hopkins Folding Meeting
2006-2009	Member, Council, Biological Division of the American Chemical Society
2006-2009	Member, External Advisory Committee, University of Kansas COBRE Grant

SOCIETY MEMBERSHIPS:

AAAS, ACS, ASBMB, Biophysical Soc., Amer. Soc. Cell Biol., Amer. Peptide Soc., The Protein Society

EDITORIAL ADVISORY BOARDS:

1988-1995	<i>Journal of Molecular Recognition</i>
1989-1996	<i>International Journal of Peptide and Protein Research</i>
1992-1999	<i>Biochemistry</i>
1996-1999	<i>Folding and Design</i>
1998-1993	<i>Peptide Research</i>
1997-2005	<i>Journal of Peptide Research</i>
2000-2003	<i>Journal of Biological Chemistry</i>

1987-	<i>Biopolymers</i>
1988-	<i>Proteins: Structure, Function and Genetics</i>
1993-	<i>Chemistry & Biology</i>
1999-	<i>Structure with Folding & Design</i>
2004-2009	Editor-in-Chief, <i>Peptide Science</i>
2006-	<i>Protein Science</i>
2006-	<i>Chemical Biology and Drug Design</i>

MAJOR INVITED LECTURES, last 15 years:

Pfizer Lecturer, Clinical Research Institute of Montreal, Jan. 18, 1991.
Invited Lecturer, ASBMB National Meeting, Atlanta, GA April 21-25, 1991.
Graduate Student/Abbott Lecturer, UCSF, May 1, 1991.
Peptide-Protein Bridge Meeting, Toronto, Canada, June 6-10, 1991.
12th Amer. Peptide Symposium, Boston, MA, June 16-21, 1991.
Gordon Research Conference, "Molecular Membrane Biology", July 8-12, 1991.
23rd Lunteren Lectures on Molecular Genetics, Netherlands, Sept. 24-27, 1991.
Keynote Speaker, Virginia Biochemists Conference, Nov. 8-10, 1991.
Colloque: Tendances en Chimie Supramoléculaire, Lyon, France, Dec. 4-6, 1991.
Jefferson Cancer Institute Symposium on Macromolecular Structure, Dec. 8-9, 1991.
Wistar Lecturer, Univ. of Pennsylvania, May 7, 1992.
Canadian Institute of Chemists Conference, Symposium on Biological Applications of Solution NMR Spectroscopy, June 2-3, 1992.
FASEB Summer Conference on Protein Folding and Assembly in the Cell, June 8-12, 1992.
Karolinska Institute Center for Structural Biology Summer School, Stockholm, Aug. 23-28, 1992.
British Biophysical Soc. Meeting in Honor of N. Michael Greene, Nov. 16, 1992.
Keystone Meeting on Genetic and In Vitro Analysis of Cell Compartmentalization, Feb. 8-14, 1993.
Keystone Meeting on Prospects and Progress in Drug Design Based on Peptides and Proteins, Mar. 8-14, 1993.
Banbury Conference on Molecular Chaperones, Apr. 4-7, 1993.
NATO Summer School on Structure, Biogenesis, and Dynamics of Biological Membranes, Carghèse, Corsica, June 14-26, 1993.
Gordon Research Conference on Molecular Membrane Biology, July 12-16, 1993.
3rd NAITO Conference, Protein Translocation in the Cell, Gifu, Japan, Nov. 2-5, 1993.
Eli Lilly Lecturer, Michigan State Univ., Dec. 6, 1993.
Lorne Conference on Protein Structure and Function, Lorne, Australia, Feb. 6-10, 1994.
Gordon Research Conference, Chemistry and Biology of Peptides, Feb. 13-18, 1994.
29th Burgenstock Conference on Stereochemistry, Burgenstock, Switzerland, May 1-7, 1994.
FASEB Summer Research Conference on Protein Folding and Assembly in the Cell, June 4-9, 1994.
Gordon Research Conference on Biopolymers, June 26-Jul. 1, 1994.
Protein Society Meeting, July 10-13, 1994.
Jane Coffin Childs Symposium, Protein and RNA Folding, Oct. 14-16, 1994.
AAAS Ann. Mtg., Symposium on Protein Folding, Feb. 20, 1995.
ASBMB Ann. Mtg., Symposium on Protein Folding, May 21-25, 1995.
Gordon Research Conference on Bioorganic Chemistry, June 18-23, 1995.
Lucy Pickett Lecturer, Mount Holyoke College, October 18, 1995.
Keynote Address, 19th Ann. Grad. Student Symposium, Case Western Reserve, Nov. 7, 1995.
Distinguished Bioscientists, Issues in Modern Biology Series, Los Alamos National Labs., Jan. 11, 1996.
Merck Lecturer, Amherst College, Mar. 8, 1996.

Johns Hopkins Univ. Protein Folding Conference, Mar. 16-19, 1996.
EMBO Discussion Workshop, Warwick, England, Mar. 30-Apr. 4, 1996.
FASEB Summer Conf. on Biophysics of Cell Membranes, July 20-25, 1996.
FASEB Summer Conf. on Protein Folding and Assembly in the Cell, July 27-Aug. 1, 1996.
Symposium Speaker, Annual Meeting of the Biophysical Society, March 2-6, 1997.
Suddath Memorial Symposium Speaker, April 1997.
Invited speaker, American Peptide Symposium, Nashville, TN, June 1997.
Gordon Research Conference on Molecular Membrane Biology, July 1997.
NATO Summer School on Structure, Biogenesis, and Dynamics of Biological Membranes, Carghèse, Corsica, June, 1997.
Symposium Speaker, IUB/ASBMB Congress, San Francisco, CA, August, 1997.
New Directions in NMR: A Symposium Honoring A. Bothner-By, J. Dadok, I. Lowek and R. Shumacher, Carnegie Mellon Univ., Pittsburgh, PA, Sept. 20, 1997.
Invited Lecture, Symposium on NMR and Protein Folding, Ascona, Switzerland, Sept. 1997.
Invited Lecture, 1st International Symposium on Peptides, Kyoto, Japan, December 1997.
Invited Lecture, Cold Spring Harbor Meeting on Molecular Chaperones & the Heat Shock Response, May 1998.
Invited Lecture, FASEB Meeting, Molecular Biophysics of Cellular Membranes, August, 1998.
Invited Lecture, FASEB Meeting, Protein Folding & Assembly in the Cell, August, 1998.
Invited Lecture, Keystone Symposium, Protein Folding, Degradation and Molecular Chaperones, April, 1999.
Plenary Lecture, 16th American Peptide Symposium, July 1999.
Symposium Speaker, Ann. Mtg. Biophysical Society, New Orleans, February 2000.
Invited Speaker, Biochemical Society Meeting, Leeds, England, April 2000.
Invited Lecture, Cold Spring Harbor Meeting on Molecular Chaperones & the Heat Shock Response, May 2000.
Invited Speaker, Symposium on Structural Biology 2000, Galveston, TX, May 2000.
Invited Lecture, FASEB Meeting, Protein Folding & Assembly in the Cell, July 2000.
Invited Lecture, International Peptide Symposium, June 2001.
Invited Lecture, Gordon Research Conference on Proteins, June 2001.
Keynote Speaker, Texas Protein Folder's Meeting, April 2002.
Invited Lecture, FASEB Meeting, Protein Folding & Assembly in the Cell, July 2002.
Plenary Lecture, International Congress on Structural Biology and Proteomics, Singapore, December 2002
Invited Lecture, Johns Hopkins Folding Meeting, Coolfont, W. Va., March 2003.
Invited Lecture, Gibbs Conference, Carbondale, IN, September 2003.
Plenary Lecture, South American Biophysical Society Meeting, Bariloche, Argentina, November 2003.
Plenary Lecture, New Zealand Molecular Biology Meeting, Queensland, New Zealand, November 2004.
Theo Hofman Lecture, University of Toronto, May 2005.
Invited Lecture, Proteins Gordon Research Conference, June 2005.
Invited Lecture, The Protein Society Meeting, Boston, July 2005.
Invited Lecture, Biopolymers Gordon Research Conference, June 2006.
Invited Lecture, Bacterial Cell Surfaces Gordon Research Conference, July 2006.
Invited Lecture, FASEB Meeting, Protein Folding in the Cell, July 2006.

RESEARCH INTERESTS:

The relationship between amino acid sequence and three-dimensional structures of proteins and peptides; protein folding, aggregation, and localization in vivo; biophysical approaches, including nuclear magnetic resonance, circular dichroism, and fluorescence to protein folding and structure.